

RESEARCH FOR RESULTS



Irrigation Research Foundation (IRF) Trials – New South Trial

OVERVIEW: This is year 2 of a 3-year study utilizing the same 10-acre plot, multi-block randomized test. The test plot was once again done on the same challenging area of the Research Farm as 2013 and 2014. This year the research plot experience heavy rainfall and freezing temperatures after emergence and then hail later in the season.

LOCATION: Yuma, CO

PLOT: 10 acre; Circle A – SE ¼ - High Water

HYBRID: DKC 54-38

PLANTING DATE: 5/12/2015

HARVEST DATE: 11/5/2015

POPULATION: 34K

PRE-PLANT: Strip-till: 17-8-1-4.8s applied (10) gallons @ 4 inches, (13) gallons @ 10 inches per acre 4/1/2015

WEED TREATMENT: Lumax EZ @ (2.7) quarts; Touchdown Total @ (32) ounces per acre; AMS @ (1) quart; NIS @ (1) quart per 100 gallons water. 6/1/2015
STATUS @ (5) ounces; ROUNDUP WEATHER MAX @ (32) ounces per acre; AMS @ (1) quart; NIS @ (1) quart per 100 gallons water. 7/1/2015

TREATMENTS: Starter 2x2: 15.7-8.9-2.6-2.6s-.1Zn @ (18) gallons per acre 5/12/2015
Through Sprinkler: 28-0-0-5 @ (8) gallons per acre 6/11/2015
28-0-0-5 @ (8) gallons 6/16/2015
28-0-0-5 @ (10) gallons 7/2/2015
28-0-0-5 @ (5) gallons 7/10/2015
28-0-0-5 @ (5) gallons 7/20/2015
28-0-0-5 @ (4) gallons 8/12/2015

RAINFALL CONDITIONS: 14.85 inches rainfall; 8.9 inches applied

App Dates	Protocols	Moisture	YIELD (bu./acre)
	2x2		
4/1/2015 5/12/2015	3 Growth Boost @ (2) quarts per acre with Standard IRF strip till & Standard IRF 2x2 at planting	15.1	181.07
4/1/2015 5/12/2015	3 Growth Boost (2) quarts with Standard IRF strip till & 3 Growth Boost @ (2) quarts, SB4400 @ (1) pint per acre with standard IRF 2x2 at planting	15.4	174.00
4/1/2015 5/12/2015 7/23/2015	3 Growth Boost @ (2) quarts with Standard IRF strip till & 3 Growth Boost @ (2) quarts, SB4400 @ (1) pint per acre with standard IRF 2x2 at planting. Foliar- Aerial application of 3-18-18 @ (3) gallons with 6 Growth Supplement @ (40) ounces, 5 MicroNutrient Boost @ (1) pint per acre	15.4	167.85
	Control	15.2	161.72
	In- Furrow		
4/1/2015 5/12/2015	3 Growth Boost @ (2) quarts per acre with Standard IRF strip till & Standard IRF in-furrow at planting	15.6	175.80
4/1/2015 5/12/2015	3 Growth Boost @ (2) quarts with Standard IRF strip till & 3 Growth Boost @ (2) quarts, SB4400 @ (1) pint per acre with standard IRF in-furrow at planting	15.2	165.03
4/1/2015 5/12/2015 7/23/2015	3 Growth Boost @ (2) quarts with Standard IRF strip till & 3 Growth Boost @ (2) quarts, SB4400 @ (1) pint per acre with standard IRF in-furrow at planting. Foliar- Aerial application of 3-18-18 @ (3) gallons with 6 Growth Supplement @ (40) ounces, 5 MicroNutrient Boost @ (1) pint per acre	15.0	169.00
	Control	15.3	160.41